

WHAT IS CLAIMED IS:

1           1. An imaging apparatus including at least an imaging device  
2     having a plurality of photoelectric transfer devices arranged in matrix-  
3     shape to detect a light irradiated to each photoelectric transfer device  
4     and transfer to electric signal, and imaging means for imaging an image  
5     of a photogenic object on a surface of the imaging devices,  
6     wherein the imaging means images at least two similar images of the  
7     photogenic subject on different area of the surface of the imaging device,  
8     and the imaging apparatus further includes electric signal processing  
9     means to form one image of the photogenic subject from at least two  
10    images of the photogenic subject.

1           2. The imaging apparatus of Claim 1, wherein the imaging  
2     means is composd of a plurality of lens systems having the same shape  
3     or refractive index and arranged in a plane parallel to an light-receiving  
4     surface of the imaging device.

1           3. The imaging apparatus of Claim 2, wherein the image  
2     formation lenses composing each lens system are formed integrally.

1           4. The imaging apparatus of Claim 2, wherein the image  
2     formation lenses composing the lens system are formed integrally of  
3     material having a liner expansion coefficient of not more than  $1 \times 10^{-5} / ^\circ\text{C}$ .

1           5. The imaging apparatus of Claim 2, wherein the image  
2     formation lenses composing the lens system are bonded on a substrate

- 3 having a liner expansion coefficient of not more than  $1 \times 10^{-5}/^{\circ}\text{C}$ .

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